Aviation Collective Training

Army Need: Army Aviation units must train collective skills to standard under extremely difficult conditions, including cost and airspace limitations, high operational tempo, and evolving missions.

Purpose: To develop collective performance assessment tools for manned and unmanned teams to improve collective training in live and virtual environments.

Products:

• Techniques to identify critical aviation team processes.

• Observational and simulator-generated performance measures that differentiate good and poor team performance.

• Methods to assess the utility and effectiveness of TADSS for both manned and unmanned aircraft.

Payoff:

• Commanders and trainers better able to objectively assess team performance and related training needs.

• Research-based information to support collective simulation training strategies and to guide more effective use of TADSS in both rotary wing and UAS training.

ARI lead: Fort Rucker Research Element

Collaboration/coordination: USAACE, DOS, TCM-RA, TCM-UAS, AMRDL, UAS COE, DOTD, 110th AVN BDE

Aviation Collective Training

- **Increasing UAS training and mission effectiveness through simulation**
  - o **FY10 STR sponsored by TCM-UAS**
  - o **Interviewed operators and instructors at Bragg, Carson, Huachuca, and Benning**
  - o **Current training and TADSS Gap Analysis for Grey Eagle, Shadow, Hunter, and Raven**

- **Identifying/Training Critical Manned-Unmanned (MuM) Teaming Skills for UAS Operators**
  - o **Identifying critical MuM tasks and related skill requirements**
  - o **Also, metrics for measuring identified skills**
  - o **Transition of MuM critical skills and benchmark indicators to TCM-UAS**

- **Training Requirements Analysis for One Source Remote Video Terminal (OSRVT)**
  - o **MCOE G3 and 197th IN BDE requested TAS to examine OSRVT training effectiveness and needs**
  - o **Likely will examine OSRVT utilization during JRTC rotations**

Aviation Collective Training

- **Validation & usability evaluation of Army Aviation collective performance measures**
  - o **Completing development of observational and simulation system generated collective performance measures designed to differentiate high/low performing aviation teams**
  - o **Follow on is validating measures against ATX performance and independent subjective ratings**
  - o **Usability analysis with ATX O/Cs to drive revisions**
  - o **Product to be transitioned to AWSC (O/Cs) and CABs**

- **Training analysis of Army Aviation collective TADSS capabilities**
  - o **Identify (1) Aviation collective training challenges – home and deployed; (2) TADSS capabilities and capacities; (3) TADSS Utilization**
  - o **Identify TADSS Growth Areas**
  - o **Validate findings with Aviation Warfighting Simulation Center (AWSC) and Combat Aviation Brigade (CAB) personnel**
  - o **Products include recommendations for maximizing use of current and planned TADSS**